Multichannel MPEG-2& H.264 SD

EncoderMCE-6108AD

User's Manual

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1. Introduction

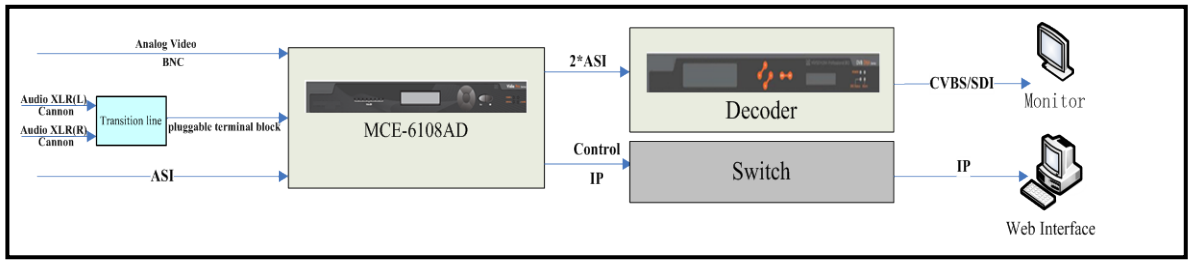
1.1 Abstract

MCE-6108AD (Multiple Channel Encoder) is a broadcasting class MPEG-2 and H.264professional standard-definition 8-channel encoder; 1 U rack-mount chassis, designed for low-bandwidth transmission, MPEG-2 SD and H.264 SD are switchable, support 10/100/1000M Ethernet port for IP streaming, 10/100M Ethernet port for control, has redundancy dual power supplies.

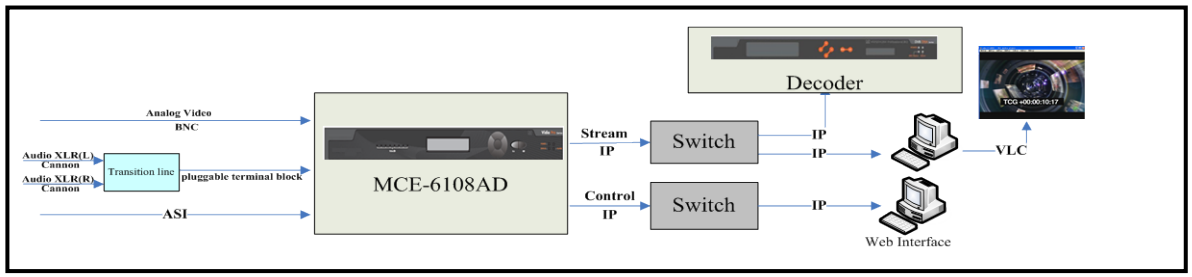
1.2Applications

User can refer to the next illustration to connect encoder.

ASI Output



IP Output



Tips：Before connection, please confirm the input source is NTSC or PAL firstly to set “Video Format” correctly; IF user’s Audio source is non-balance Audio, user should convert non-balance Audio to balance Audio; when user select H.264 encoding mode, the decoder should support H.264 decoding mode.

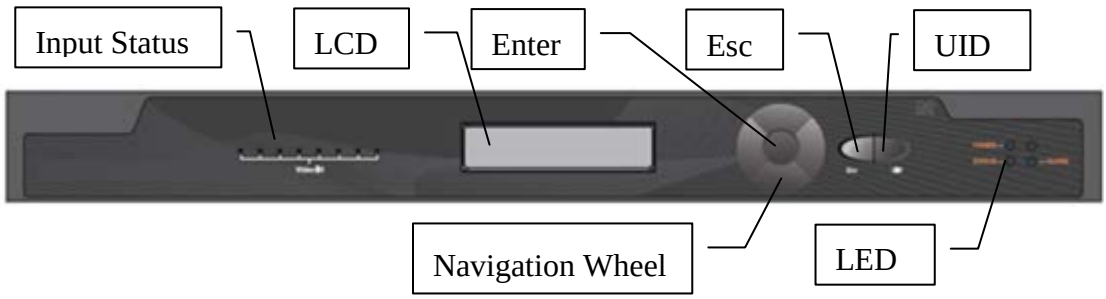
1.3 Main Features

- MPEG-2 SD and H.264 SD are switchable
- High quality and low bit rate encoding
- 1U high density layout
- Support 10/100/1000M Ethernet port for IP streaming, 10/100M Ethernet port for control
- Redundancy dual power supplies
- Network management via web-control GUI
- Equipment cascade

1.4 Input and Output Interface

	Interface
Input	CVBS(BNC) SDI(BNC) Balance and unbalance audio ASI
Output	DVB-ASI(BNC) TS OVER IP（RJ-45）

1.5 Front Panel



❖ **Input status indicators**

Note: when video input source is normal, indicator lights show in green and flashing, when video input source is abnormal, indicator lights are blind.

❖ ▲/▼: Select menu

◄/►: Change value

Enter: Go to the sub-menu or confirm settings

Esc: Esc to exit or cancel

❖ **Light**

POWER: Two power indicator lights

Note: Normally power indicator lights show in green, no power supplies or power connection is off function, indicator lights show in red.

STATUS: Status indicator light

Note: Normally status indicator light shows in green, if channel which is enable output but no input source, the indicator light shows in red.

ALARM: Alarm indicator light

Note: Normally alarm indicator light shows in green, if control or streaming cat-5 connection failed, alarm indicator light shows in red.

❖ **UID**

The function is convenient for user to find out the device when many devices are in cabinet from the back panel. When user click the button, the LED in the bottom left corner of the rear panel will be light (keep 900s), when user clicks the button again, the LED will be turned off.

1.6 Rear Panel

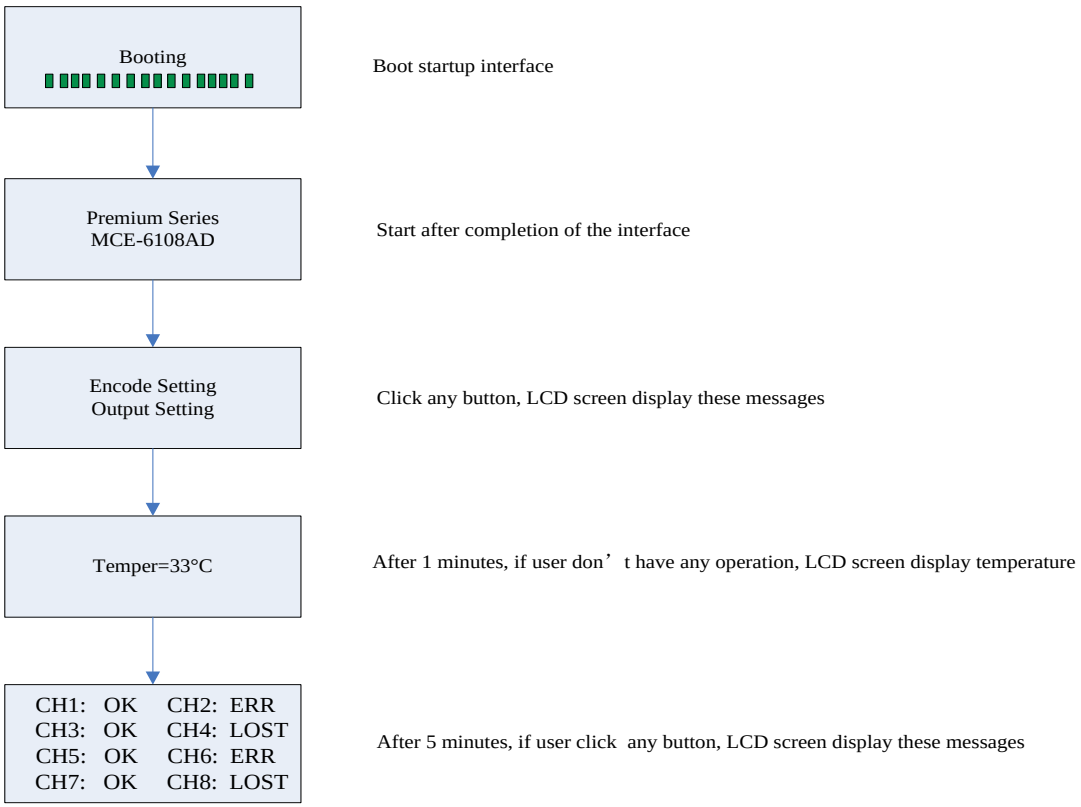
The ports in the rear panel are (from left -to- right):

- The section one: 8-channel Digital and Analog audio interface (left and right).
- The section two: 8-channel CVBS and SDI interfaces (5-8).
- The section three: 8-channel CVBS and SDI interfaces (1-4).
- The section four: Two ASI OUT (right) and One ASI IN(left).
- The section five: Dual LAN (10/100M control port (upper level) and 10/100/1000M streaming port (low level)).
- The section six: AC 85~265V.
- The section seven: The screw in the bottom right corner is for electricity ground connection.
- The section eight: UID LED (Unit Indicator) in the bottom left corner.

2. Menu Description

2.1 POWER UP BOOTING

Turn on power-supply switch, the encoder LCD will display the following messages:


Booting
Boot startup interface
Premium Series
MCE-6108AD
Start after completion of the interface
Encode Setting
Output Setting
Click any button, LCD screen display these messages
Temper=33°C
After 1 minutes, if user don’ t have any operation, LCD screen display temperature
CH1: OK CH2: ERR
CH3: OK CH4: LOST
CH5: OK CH6: ERR
CH7: OK CH8: LOST
After 5 minutes, if user click any button, LCD screen display these messages

2.2 Menu Definition

2.2.1 Basic Operations

☞ **Via menu, you can operate as follows:**

You can click“▲”,“▼”,“Enter”, “Esc” buttons to browse all menus. Click“▲”button, cursor up, click“▼”button, cursor down, click “Enter” to enter sub-menu, click “Esc” button to return prior menu.

☞ **Setting parameters, you can operate as follows:**

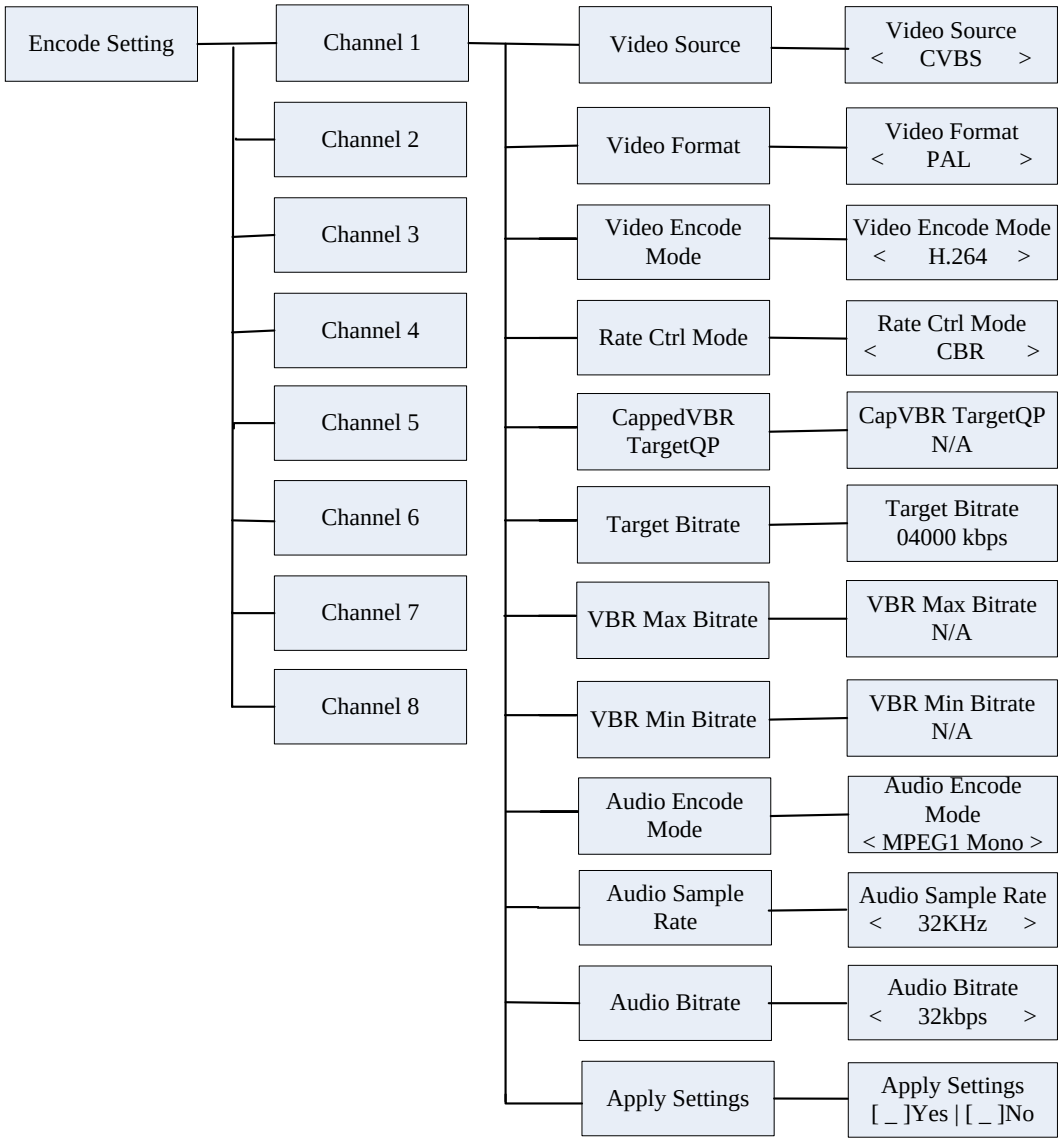
Please click “Enter” button to come into editing status, when you modify the item. If you want to modify number, please click“◄”,“►”buttons to move cursor, click“▲”“▼”buttons to increase or decrease the value where cursor indicates. After settings, click “Enter” to confirm it. If only to choose on screen parameters, then you can click “▲”, “▼”, buttons to flip up and down, click“◄”, “►”buttons to select parameters. After settings, click “Enter” to confirm it.

☺ **Tips:** **“➢”** (on the left hand side) indicates the level of menu selected.

“↵” (on the right hand side) indicates the numerical value parameters can be modified, **“↵”** will disappear in editable mode, and after the modified parameters were saved, **“↵”** will appear again.

“✳” (on the right hand side) indicates the on screen option parameters can be changed, after the selected option were saved, **“✳”** will disappear.

2.2.2 Encode Setting



Video Source The video source setting, user can select video input source.

(Channel---→Video Source---→Video Source. Click "◄","►" button to select parameters, click "Enter" to confirm it, click "▼" button to next menu, click "Esc" button to return prior menu)

Video Format The video format setting, user can select video format: 576i (PAL) or 480i (NTSC).

(Channel---→Video Format---→Video Format. Click "◄","►" button to select parameters, click "Enter" to confirm it, click "▼" button to next menu, click "Esc" button to return prior menu)

Video Encode The video encode mode setting, user can select MPEG-2 or H.264 encoding mode.

(Channel---→Video Encode Mode---→Video Encode Mode. Click "◄","►" button to select parameters, click "Enter" to confirm it, click "▼" button to next menu, click "Esc" button to return prior menu)

Note: when users select H.264 encoding mode, the decoder should support H.264 decoding mode.

Rate Ctrl Mode The rate ctrl mode setting, user can select: CBR, Capped VBR, Target VBR.

(Channel---→ Rate Ctrl Mode---→ Rate Ctrl Mode. Click "◄","►" button to select parameters, click "Enter" to confirm it, click "▼" button to next menu, click "Esc" button to return prior menu)

Capped VBR TargetQP The Capped VBR TargetQP setting, if user choose CBR for rate ctrl mode, then capped VBR TargetQP is N/A. Others is effective.

(Channel---→Capped VBR TargetQP ---→Cap VBR TargetQP. Click "◄","►" button to select parameters, click "Enter" to confirm it, click "▼" button to next menu, click "Esc" button to return prior menu)

Tips: H.264 Encoding: Range: 2 to 63 ; MPEG-2 Encoding: Range: 2 to 31

Target Bitrate The minimal bitrate can be set is 100kbps, the maximal bitrate can be set is 10,000 kbps.

(Channel---→Target Bitrate---→ Target Bitrate. Click"◄","►"buttons to move

cursor, click"▲","▼"buttons to modify the value where cursor indicates, select the proper number, click "Enter" to confirm it, click "▼" button to next menu, click "Esc" button to return prior menu)

The VBR Max Bitrate setting, if user choose CBR for rate ctrl mode, then VBR Max Bitrate is N/A. others is effective.

(Channel---→ VBR Max Bitrate ---→ VBR Max Bitrate. Click "◄","►" button to select parameters, click "Enter" to confirm it, click "▼" button to next menu, click "Esc" button to return prior menu)

Tips: MPEG-2 range is 500K-7000K, H.264 range is 250K-7000K.

The VBR Min Bitrate setting, if user choose CBR for rate ctrl mode, then VBR Min Bitrate is N/A. others is effective.

(Channel---→ VBR Min Bitrate ---→ VBR Min Bitrate. Click "◄","►" button to select parameters, click "Enter" to confirm it, click "▼" button to next menu, click "Esc" button to return prior menu)

Tips: MPEG-2 range is500K-7000K, H.264 range is250K-7000K.

The audio encode mode setting, user can select one of audio formats: MPEG1 Mono, MPEG1 Stereo, AAC-LC Mono, AAC-LC dual Mono, AAC-LC Stereo, AAC-HE v1 Mono, AAC-HE v1 dual Mono, AAC-HE v1 Stereo, AAC-HE v2 Stereo, MPEG-1 Pass, AAC-LC Pass, HE-AAC Pass, AC3-CE Pass, AC3-PE Pass.

(Channel---→Audio Encode Mode---→Audio Encode Mode. Click "◄","►"

buttons to select one of on screen parameters, click "Enter" to confirm it, click "▼" button to next menu, click "Esc" button to return prior menu)

The audio sample rate setting, user can select one of audio sample rates: 32KHz, 44.1KHz,48KHz.

(Channel ---→Audio Sample Rate---→Audio Sample Rate. Click "◄","►" buttons to select parameters, click "Enter" to confirm it, click "▼" button to next menu, click "Esc" button to return prior menu)

The audio bitrate setting, user can select one of audio bitrates: 32 kbps, 48 kbps,56kbps, 64 kbps, 80 kbps, 96 kbps, 112 kbps, 128 kbps, 160 kbps, 192 kbps, 224 kbps, 256 kbps, 320 kbps, and 384 kbps, 448 kbps, 512 kbps, 576 kbps, 640 kbps.

(Channel ---→ Audio Bitrate ---→ Audio Bitrate. Click "◄","►"button to select parameters, click "Enter" to confirm it, click "▼" button to next menu, click "Esc" button to return prior menu)

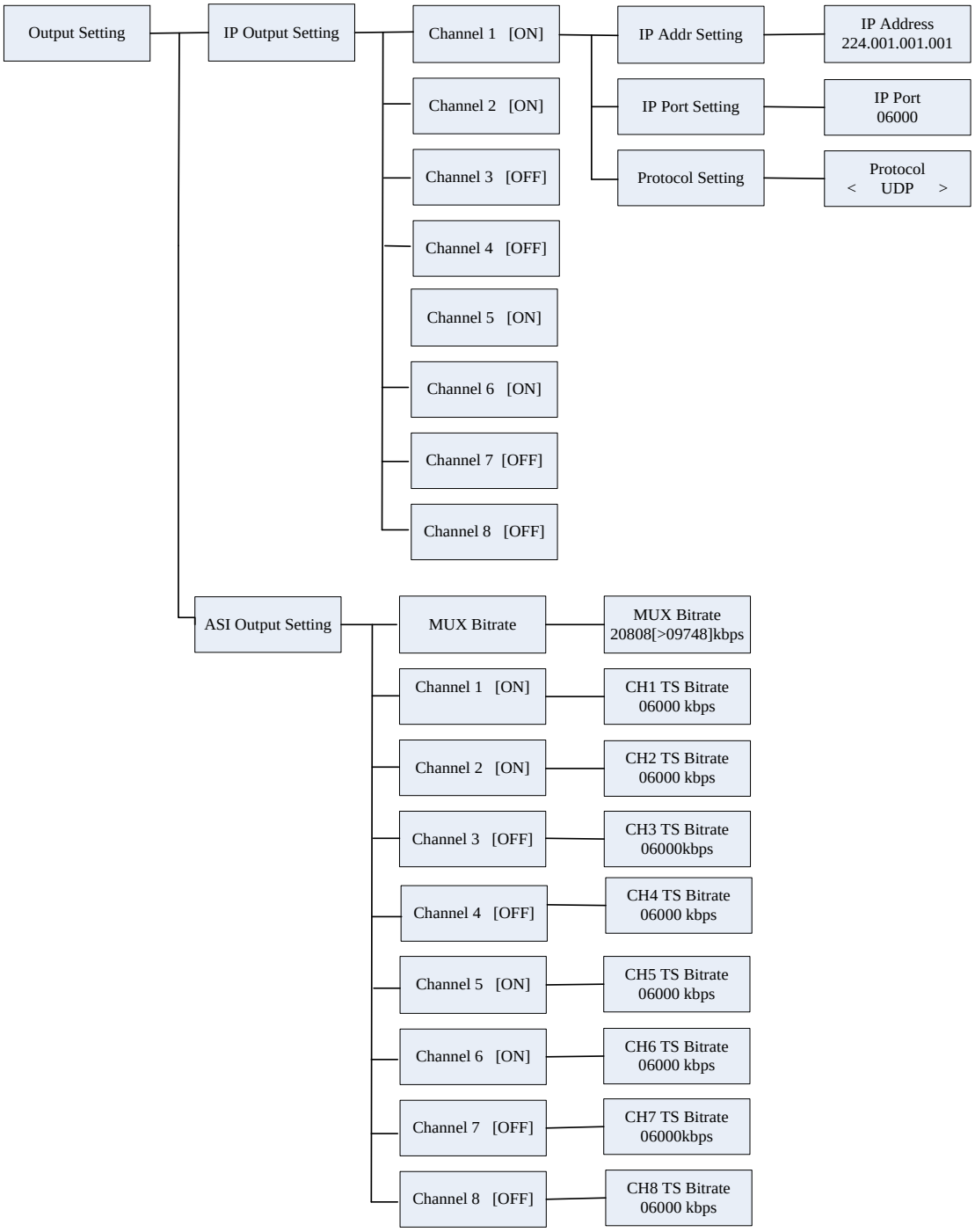
Note: The range of audio bitrate depends on different audio formats.

Apply new setting parameters.

(Channel ---→Apply Settings---→Apply Settings. Click "◄","►"button to move cursor to choose "Yes" or "No", select "Yes", then click "Enter", new setting parameters will be saved and applied, click "Esc" button to cancel settings and go back to prior menu)

Note: 1. Settings will take effect only after above parameters was confirmed through "Apply Settings".
2. Settings will cause the short pause of the current encoding stream.

2.2.3 Output Setting



8-channel IP output can be open or closed.

(IP Output Setting---→ Channel. click"◄","►"button to move cursor to choose "OFF" or "ON", click "Enter" to confirm it, click "Esc" button to return prior menu)

The multicast or unicast address setting.

(Channel 1---→ IPAddr Setting---→IP Address. Click"◄","►" buttons to move cursor, click "▲","▼"buttons to modify the number where cursor indicates, select the proper number, click "Enter" to confirm it, click "▼" button to next menu, click "Esc" button to return prior menu)

Note: Multicast address range：224.0.0.1——239.255.255.254

The destination port setting.

(Channel 1---→IP Port Setting---→ IP Port. Click"◄","►"buttons to move cursor, click"▲","▼"buttons to modify the number where cursor indicates, select the proper number, click "Enter" to confirm it, click "▼" button to next menu, click "Esc" button to return prior menu)

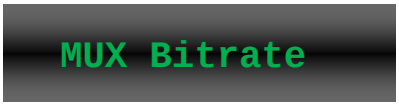
The protocol setting.

(Channel 1---→Protocol Setting---→ Protocol. Click"◄","►"button to select parameters, click "Enter" to confirm it, click "Esc" button to return prior menu)

Tips: user can look over IP bitrate via web.

8-channel ASI output can be open or closed.

(ASI Output Setting---→ Channel. click "◄","►"button to move cursor to select "OFF' or "ON", click "Enter" to confirm it, click "Esc" button to return prior menu)



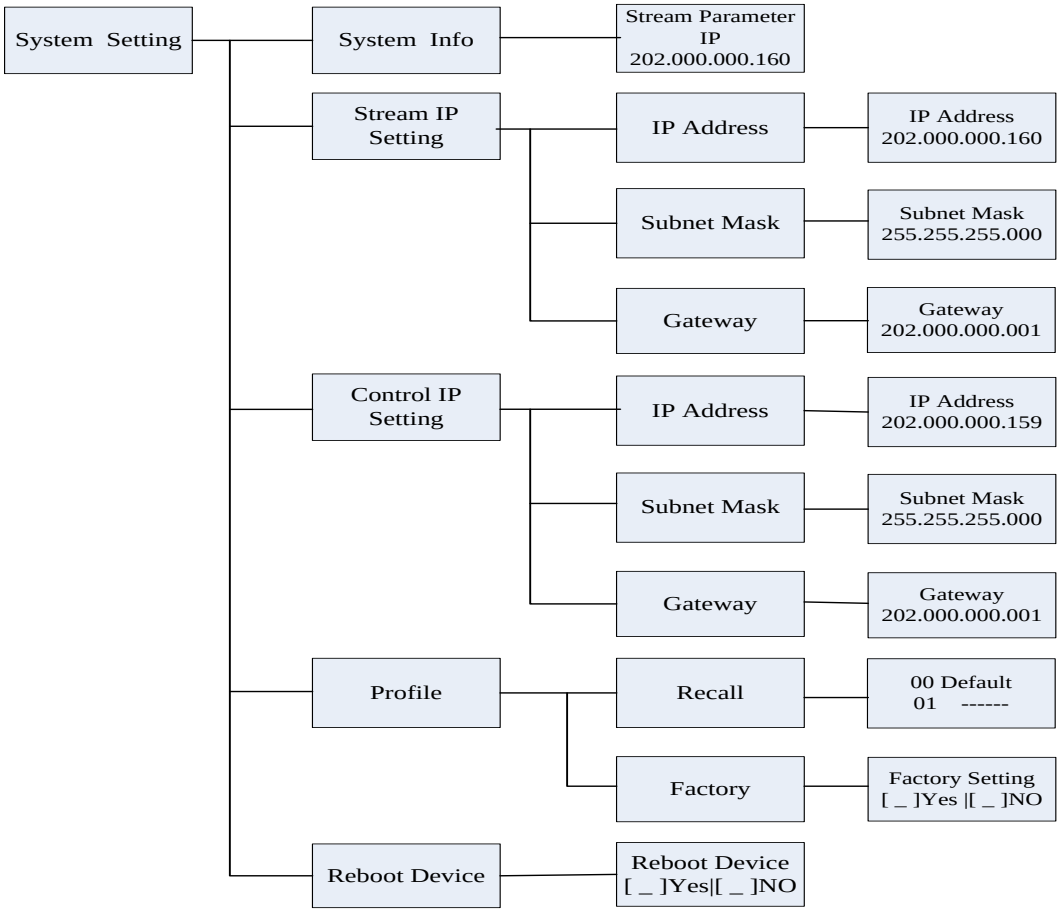
The total bitrate of multiplexed output stream setting.

(ASI Output Setting---→MUX Bitrate---→ MUX Bitrate. Click"◄","►"button to move cursor, click"▲","▼"buttons to modify the value where cursor indicates, set the proper bit rate, click "Enter" to confirm it, click "▼" button to next menu, click "Esc" button to return prior menu)

Note: The value of Mux bitrate should be big than the value of TS bitrate for the channels which are in working status.

Each channel ASI out setting**,** user can open or close different channel. Channel is open that can browse TS Bitrate.

2.2.4 System Setting



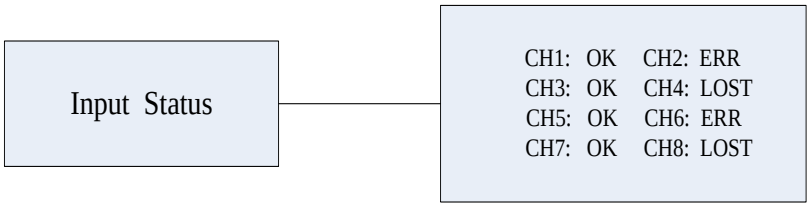
System Setting	System setting includes System Info, Stream IP, Control IP, Profile, Reboot Device settings.
System Info	Including Stream IP, Stream MAC, Control IP, Control MAC, Hardware Version, Firmware Version, Software Version, Model Number, Serial Number.
Stream IP Setting	Stream IP Setting.
Control IP Setting	Control IP Setting. Gate way must be set.
Recall	Loading default parameters, user can get the default parameters and take them in effect.
Factory	There store initial setting, IP and Encode all settings are restored (Select Yes or No, click “Enter” to restore initial setting).
Reboot Device	Reset all configuration parameters, the data which have not been saved may be lost.

(Reboot Device---→Reboot Device. Click "◄","►"button to move cursor to select “Yes” or “No”. After modification, click "Enter" to confirm it, click "Esc" button to return prior menu)

(Reboot Device---→ Reboot Device. Click "◄","►"button to move cursor to select “Yes” or “No”. After modification, click "Enter" to confirm it, click "Esc" button to return prior menu)

2.2.5 Input Status

Input Status: Show input sync status.



OK: Normal.

ERR: Error Source.

LOST: Lost Source.

3. Remote Console

3.1Launching the Web Browser

Use a browser running one a personal computer (PC) to take advantage of the remote setup capability. Below is the guide you need to follow:

☞ Prepare a computer with IE browser.

> ☺ **Tips:** IE version 8.0 or above Firefox version 6.0.2 or above are highly recommended.

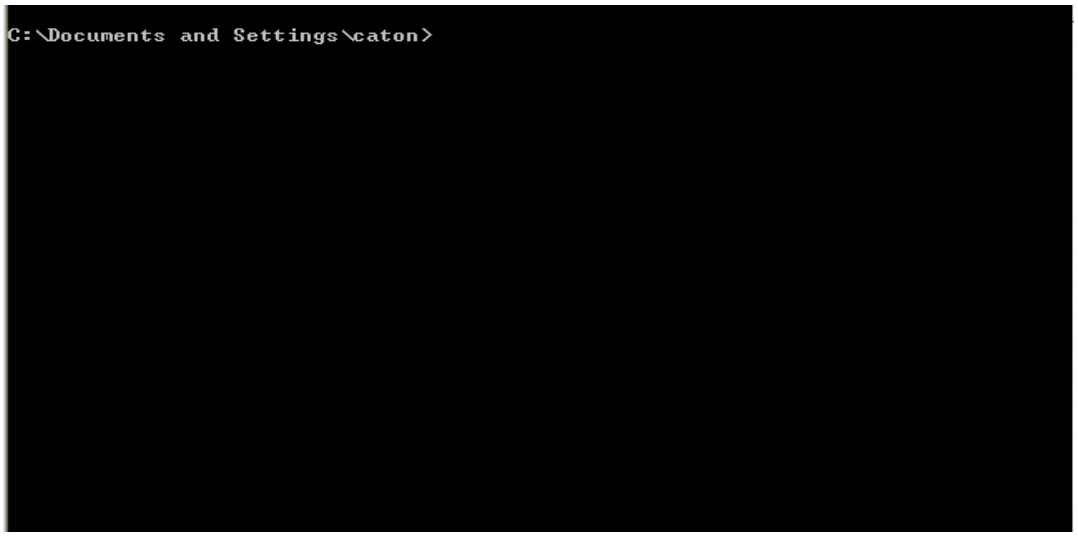
☞ Connect your PC to the management network interface of the device via Ethernet

☞ Confirm computer IP address, make sure that the device and the computer in the same network segment(steps: click

,then click

, In the ‘’open’’ the back of the blank input CMD, as follows Click

), you will see:



☞ Input **ipconfig**, click enter, you will see:

```
        Connection-specific DNS Suffix  . :
        IP Address. . . . . . . . . . . . : 192.168.1.100
        Subnet Mask . . . . . . . . . . . : 255.255.255.0
        IP Address. . . . . . . . . . . . : 202.0.0.122
        Subnet Mask . . . . . . . . . . . : 255.255.255.0
        Default Gateway . . . . . . . . . : 202.0.0.1

C:\Documents and Settings\caton>_
```

Tips: `192.168.1.100` is the computer IP address.

☞ Confirm the device IP address via front panel(steps:

System Setting ---→ System Info---→ Control Parameter---→ IP Address).

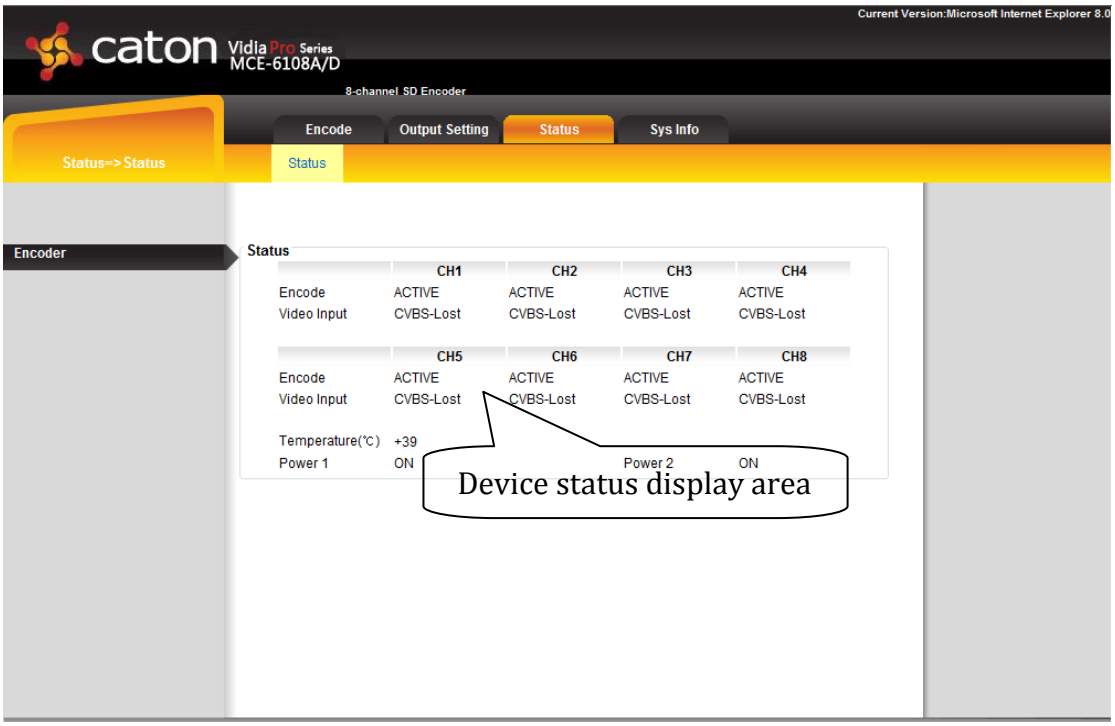
Note: 1.If the device and computer IP address in the different network segment, please modify the device IP address, and ensure that the IP address was not occupied in the network for avoiding address conflict.
2. Make sure that the Control and Stream IP address is not same.

☞ Input the device IP address in the web, click enter, you will see:

☞ Input default user name and password, all are “admin”.

3.2 Status Display

When you get a successful user authentication at the MCE-6108AD login prompt, the device status display screen appears as shown below. The device status display screen shows the status of the configuration of the device in which it comes up with this screen.



The status display area shows the following topics of information:

-Encode ……Indicates the encoder status, correct configuration displays ACTIVE, wrong configuration displays ERROR! if configuration is not done is displays Init...

-Video Input……PAL/NTSC is normal status; Sync Lost is no video input status, INVALID is wrong status.

-Temperature ……Displays the internal temperature（℃）status of the device.

-Power1 …… Displays power1connection condition.

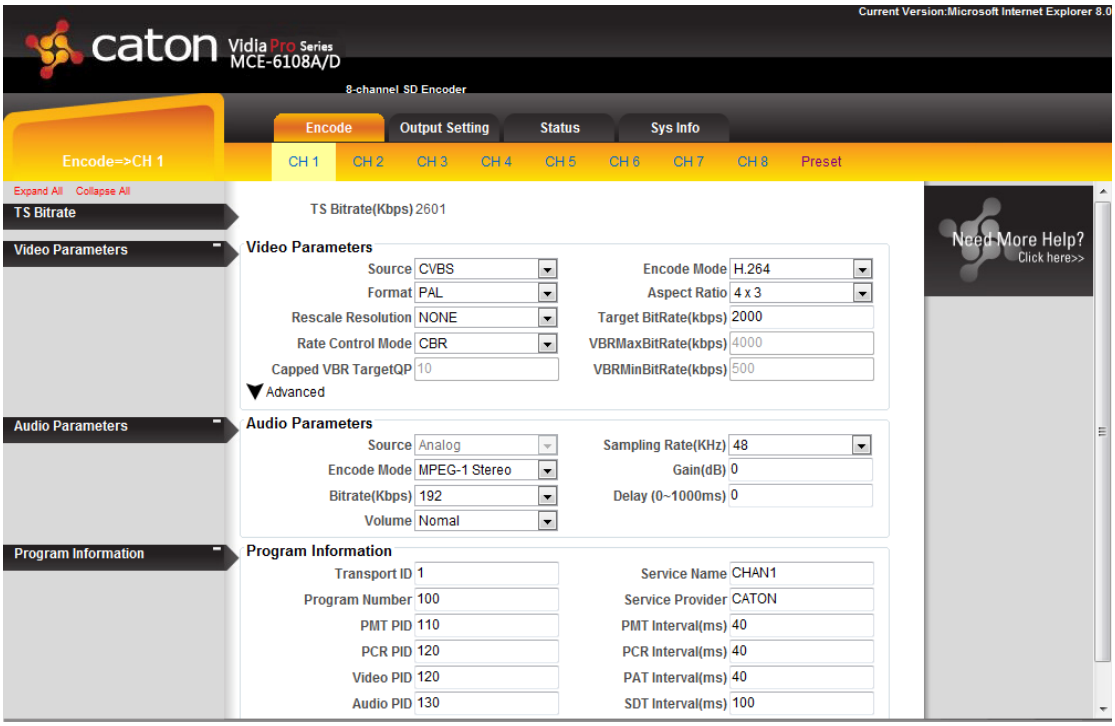
-Power2 ……Displays power2 connection condition.

3.3 Configuration

3.3.1 Encode

1. Channel Setting

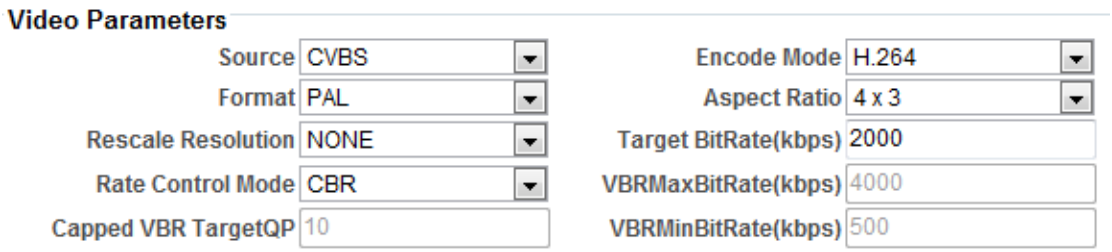
Web page as follows:



TS Bitrate: Channel total TS bitrate.

Video Parameters

(1) Video Parameters:

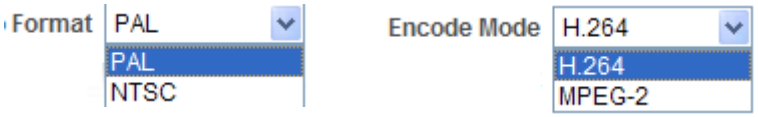


Menu Name	Range

Video Parameters	Source	CVBS
		SDI
	Encode Mode	H.264
		MPEG-2
	Rescale Resolution	NONE
		704*576
		640*576
		544*576
		528*576
		480*576
		352*576
		352*288
		352*240
		320*240
		320*180
		176*144
		160*120
		160*90
	Format	PAL
		NTSC
	Aspect Ratio	4×3
		16×9

Video Parameters		2.35×1
		1×1
	Rate Control Mode	CBR
		Capped VBR
		Target VBR
	Capped VBR TargetQP	H.264 encoding: 2 to 63 MPEG-2 encoding: 2 to 31
	Target Bitrate (kbps)	100-10,000
	VBR Max Bitrate (kbps)	MPEG-2: 500K-7000K H.264: 250K-7000K
	VBR Min Bitrate (kbps)	MPEG-2: 500K-7000K H.264: 250K-7000K

Tips: 1. Select parameters through dropdown menu, as follows:



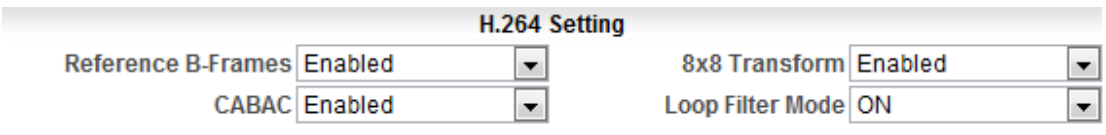
2. When user selects H.264 encoding mode, the decoder should support H.264 decoding mode.

3. Settings will cause the short pause of the current encoding stream.

4. VBRMinBitrate < = Target Bitrate < = VBRMaxBitrate

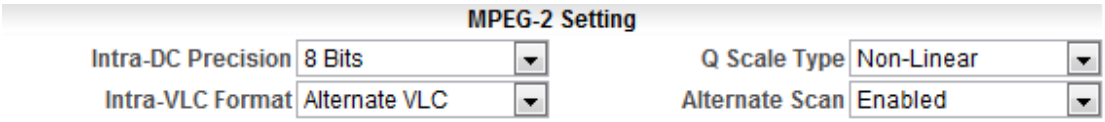
(2) Advanced setting (Click Advanced):

❖ H.264setting



Menu Name		Range
H.264 Setting	Reference B-Frames	Disabled
		Enabled
	CABAC	Disabled
		Enabled
	8×8 Transform	Disabled
		Enabled
	Loop Filter Mode	OFF
		ON
		Not across slice bounda

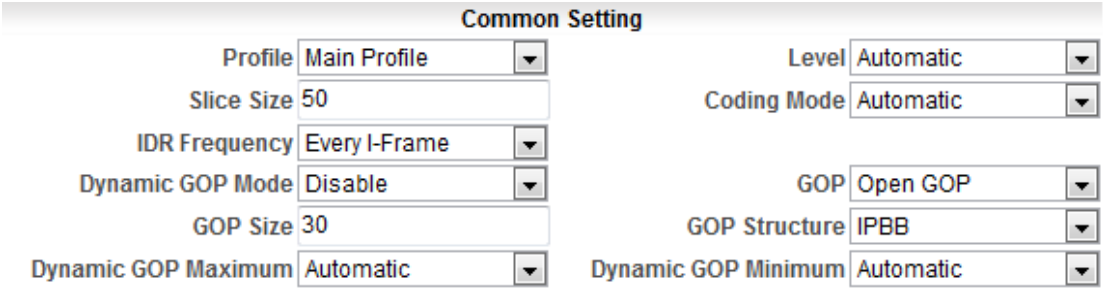
❖ MPEG-2 Setting



Menu Name		Range
MPEG-2 Setting	Intra-DC Precision	8 Bits
		9 Bits
		10 Bits
		11 Bits
	Intra-VLC Format	Alternate VLC
		MPEG-1 VLC
	Q Scale Type	Non-Linear

		Linear
	Alternate Scan	Disabled
		Enabled

❖ Common Setting

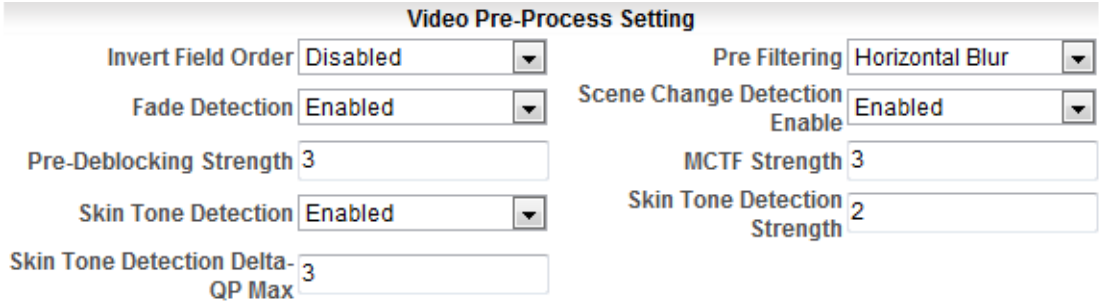


Menu Name	Range	
Profile	Main Profile	
	High Profile	
Level	MPEG-2	Automatic, High, Main
	H．264	Automatic,1.0,1.1,1.2,1.3,2.0,2.1,2.2, 3.0,3.1,3.2,4.0,4.1,4.2,5.0,5.1
Slice Size	1~80	
GOP Size	1~255	
IDR Frequency	No IDRS	
	Every 1-Frame	
	Every second 1-Frame	
	Every third1-Frame	
Coding Mode	Automatic	
	Frame	

	MBAFF
	PAFF
Dynamic GOP Mode	Disable
	Enable
GOP	Open GOP
	Closed GOP
GOP Structure	Automatic
	IP
	IPB
	IPBB
	IPBBB
	IPBBBB
	IPBBBBB
	IPBBBBBB
	IPBBBBBBB
Dynamic GOP Maximum	Automatic
	IP
	IPB
	IPBB
	IPBBB
	IPBBBB
	IPBBBBB
	IPBBBBBB

	IPBBBBBBB
Dynamic GOP Minimum	Automatic
	IP
	IPB
	IPBB
	IPBBB
	IPBBBB
	IPBBBBB
	IPBBBBBB
	IPBBBBBBB

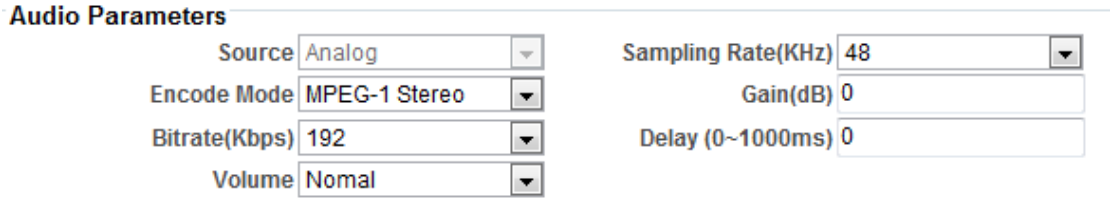
❖ Video Pre-Process Setting



Menu Name	Range
Invert Field Order	Disabled
	Enabled
Pre Filtering	Horizontal Blur
	None
Fade Detection	Disabled
	Enabled

Scene Change Detection Enable	Disabled
	Enabled
Pre-Deblocking Strength	0~3
MCTF Strength	0~7
Skin Tone Detection	Disabled
	Enabled
Skin Tone Detection Strength	0~7
Skin Tone Detection Delta-QP Max	0~6

Audio Parameters



Menu Name		Range
Audio Parameters	Source	SDI-CH1/2
		SDI-CH3/4
		SDI-CH5/6
		SDI-CH7/8
		AES-EBU
		ANALOG
		32KHZ

Audio Parameters	Sampling Rate	44.1KHZ
		48KHZ
	Encode Mode	MPEG1 Mono
		MPEG1 Stereo
		AAC-LC Mono
		AAC-LC dual Mono
		AAC-LC Stereo
		AAC-HE v1 Mono
		AAC-HE v1 dual Mono
		AAC-HE v1 Stereo
		AAC-HE v2 Stereo
		MPEG-1 Pass
		AAC-LC Pass
		HE-AAC Pass
		AC3-CE Pass
		AC3-PE Pass
	Volume	Mute
		Normal

	Bitrate (Kbps)	32~640
	Delay(0~1000ms)	0~1000
	Gain(dB)	-20~20

The range of audio bitrate depends on different audio format. Please refer below form:

Range of bit rate setting	
Audio Format	Bitrate(Kbps)
MPEG1 Mono	32,48,56,64,80,96,112,128,160,192
MPEG1 Stereo	64, 96, 112,128,160,192,224,256,320,384
AAC-LC Mono	32,48,56,64,80,96,112,128,160,192
AAC-LC dual Mono	32,48,56,64,80,96,112,128,160,192,224,256,320,384
AAC-LC Stereo	32,48,56,64,80,96,112,128,160,192,224,256,320,384
AAC-HE v1 Mono	32,48,56,64,80,96
AAC-HE v1 dual Mono	32,48,56,64,80,96,112,128,160,192
AAC-HE v1 Stereo	32,48,56,64,80,96,112,128,160,192
AAC-HE v2 Stereo	32,48,56,64,80,96
MPEG-1 Pass	32,48,56,64,80,96,112,128,160,192,224,256,320,384, 448,512,576,640
AAC-LC Pass	32,48,56,64,80,96,112,128,160,192,224,256,320,384, 448,512,576,640
HE-AAC Pass	32,48,56,64,80,96,112,128,160,192,224,256,320,384, 448,512,576,640
AC3-CE Pass	32,48,56,64,80,96,112,128,160,192,224,256,320,384, 448,512,576,640
AC3-PE Pass	32,48,56,64,80,96,112,128,160,192,224,256,320,384, 448,512,576,640

Program Information

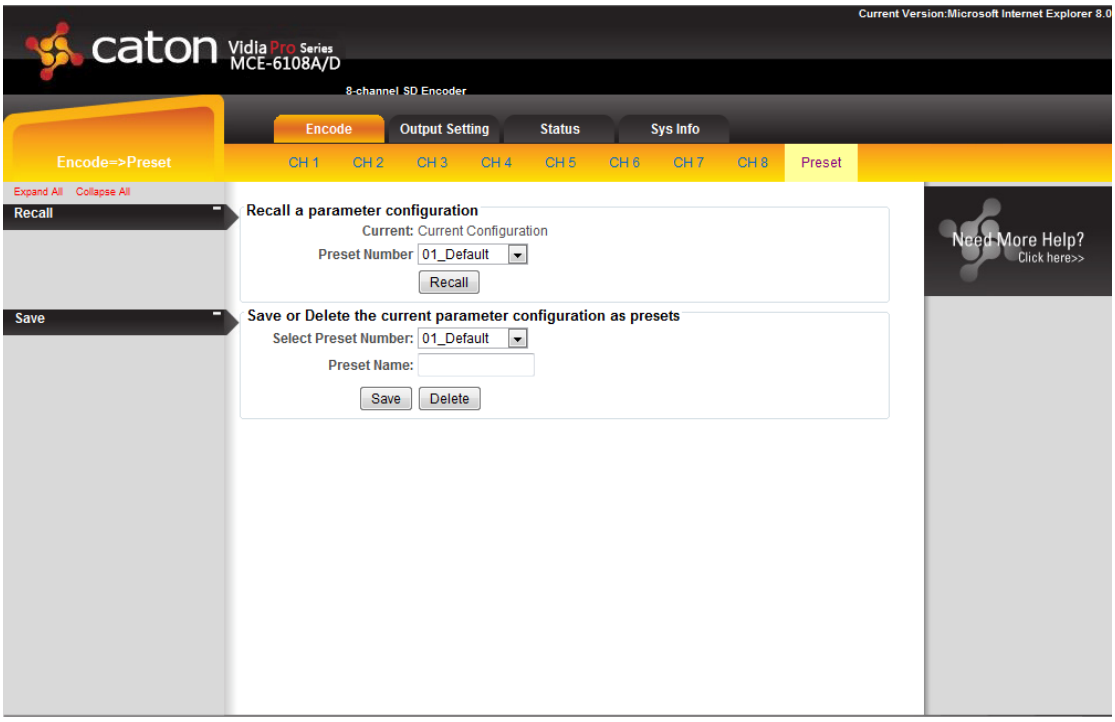
This option edits Transport PID and other relevant parameters, system generates the default PID automatically, and user can edit it.

Note: 1. Avoid channel PID conflict.
2. Avoid channel PID conflict which enabled in ASI output.

Tips: Click Submit, it will appear Encoder Parameter Config Succed information, it indicates configuration complete.

2. Preset Setting

The screen shown as follows, which allows you to recall, save, download and upload a preset parameter.



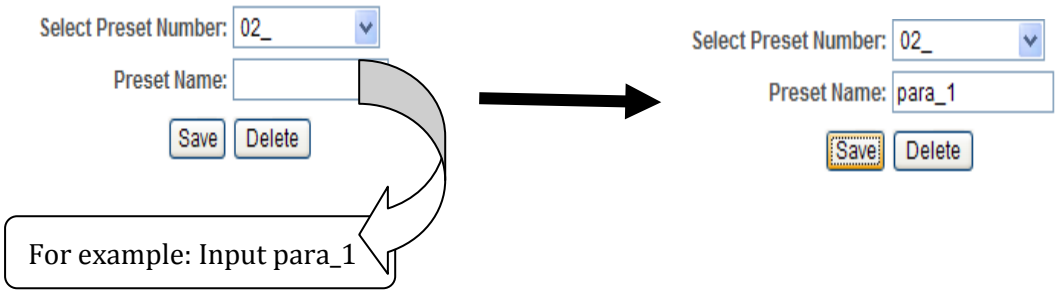
(1) Recall

Recall a parameter preserved in the device, and it reflects it in active parameter. Through dropdown menu select the configuration parameters which have been preserved, then click Recall button.

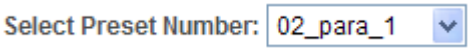
(2) Save or delete

This item is to preserve the current parameter as preset parameter; it can preserve ten parameters at most.

☞ Through dropdown menu select preset number, then input preset name what you wished in the form, then click Save button.



Click Save button and refresh page, you will see：

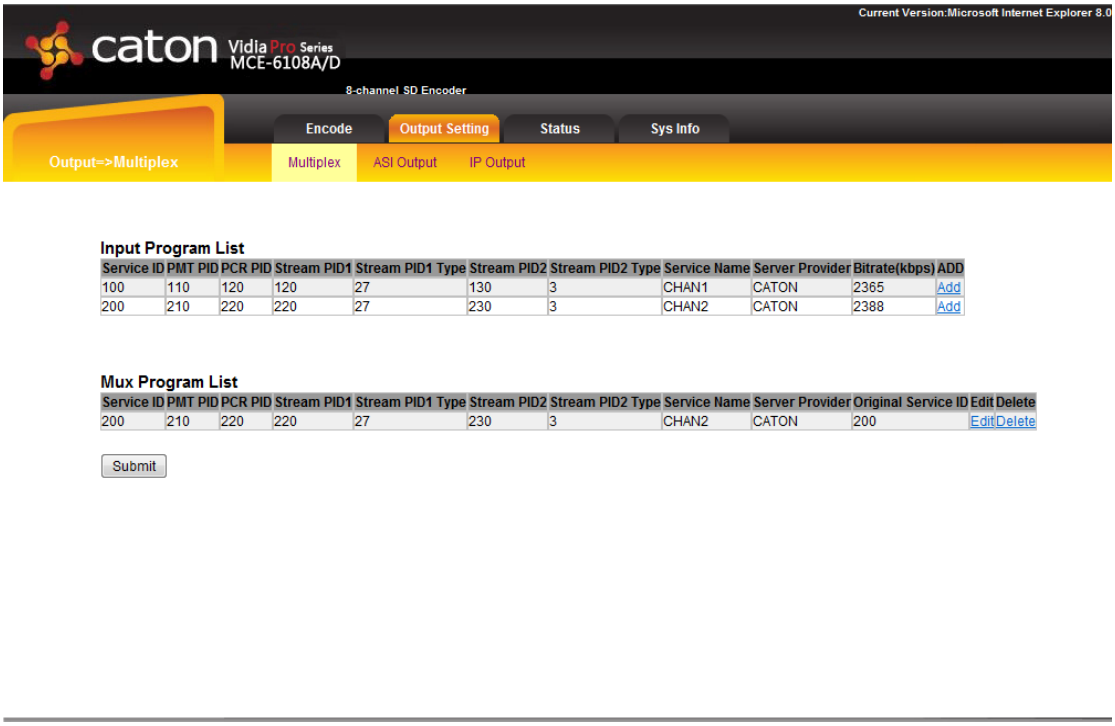


☞ Select the configuration parameters which have been preserved, then click Delete button.

3.3.2 Output Setting

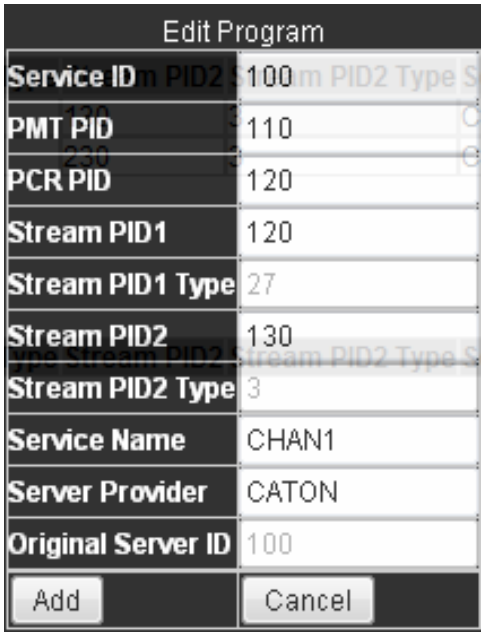
1. Multiplex

Web page as follows:


Current Version:Microsoft Internet Explorer 8.0
caton VidiaPro Series MCE-6108A/D
8-channel SD Encoder
Encode
Output Setting
Status
Sys Info
Output=>Multiplex
Multiplex
ASI Output
IP Output
Input Program List
Service ID PMT PID PCR PID Stream PID1 Stream PID1 Type Stream PID2 Stream PID2 Type Service Name Server Provider Bitrate(kbps) ADD
100 110 120 120 27 130 3 CHAN1 CATON 2365 Add
200 210 220 220 27 230 3 CHAN2 CATON 2388 Add
Mux Program List
Service ID PMT PID PCR PID Stream PID1 Stream PID1 Type Stream PID2 Stream PID2 Type Service Name Server Provider Original Service ID Edit Delete
200 210 220 220 27 230 3 CHAN2 CATON 200 Edit Delete
Submit

(1) Input Program List

In the input program list, you can see the channels' information. Select a program which you want to add, then click Add button, you will see:

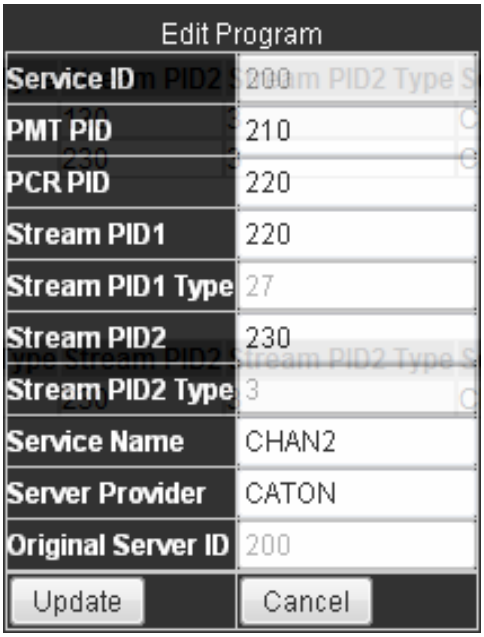


On this screen you can edit channel some basic information. Including Service ID, PMT PID, PCR PID, Stream PID1, Stream PID2, Service Name, Server Provider.

When confirm information, you can click Add button to add a program. If you don't want to change the information, click Cancel to cancel the operation.

(2) Mux Program List

In the mux program list, you can edit the channels' information. Select a program which you want to edit, then click Edit button, you will see:

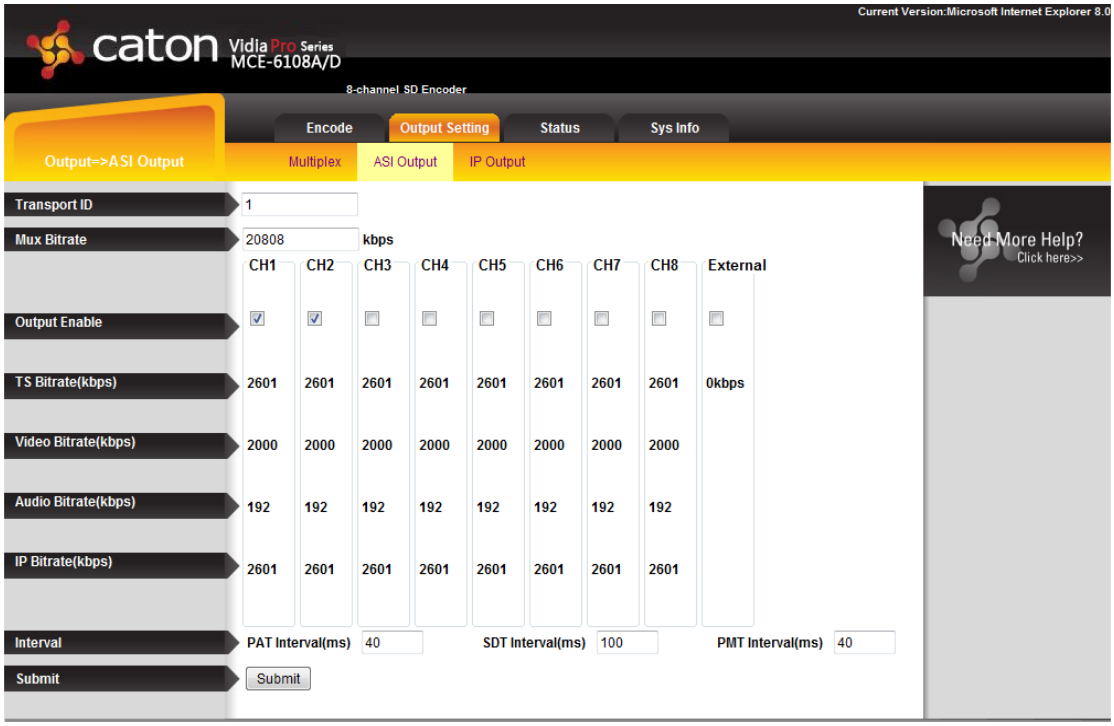


On this screen you can edit channel some basic information. When you confirm the information, you can click Update button to change a program information. If you don't want to change the information, click Cancel to cancel the operation. If you want to delete this channel, click Delete button.

Tips: 1. Click Submit, it will appear Multiplex Config Succed. information.

2. ASI Output

Web page as follows:



- Multiplexed output parameters setting

-Transport ID ……Set Transport ID, the range of data is 1~65535.

-Mux Bitrate……Set 8-channel multiplexed bitrate

-External ……Used for equipment cascade

- Channel parameters setting

-Output Enable……Set effectiveness or ineffectiveness of ASI Output

-TS Bitrate ……Show the TS bitrate

-VideoBitrate……Show the video bitrate

-Audio Bitrate……Show the audio bitrate

-IP Bitrate……Show the IP bitrate

- Interval setting

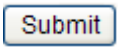
-PAT Interval (ms) ……Set PAT table send interval for Multiplexed output

-SDT Interval (ms) ……Set SDT table send interval Multiplexed output

-PMT Interval (ms) ……Set PMT table send interval Multiplexed output

Note: The value of MUX Bitrate

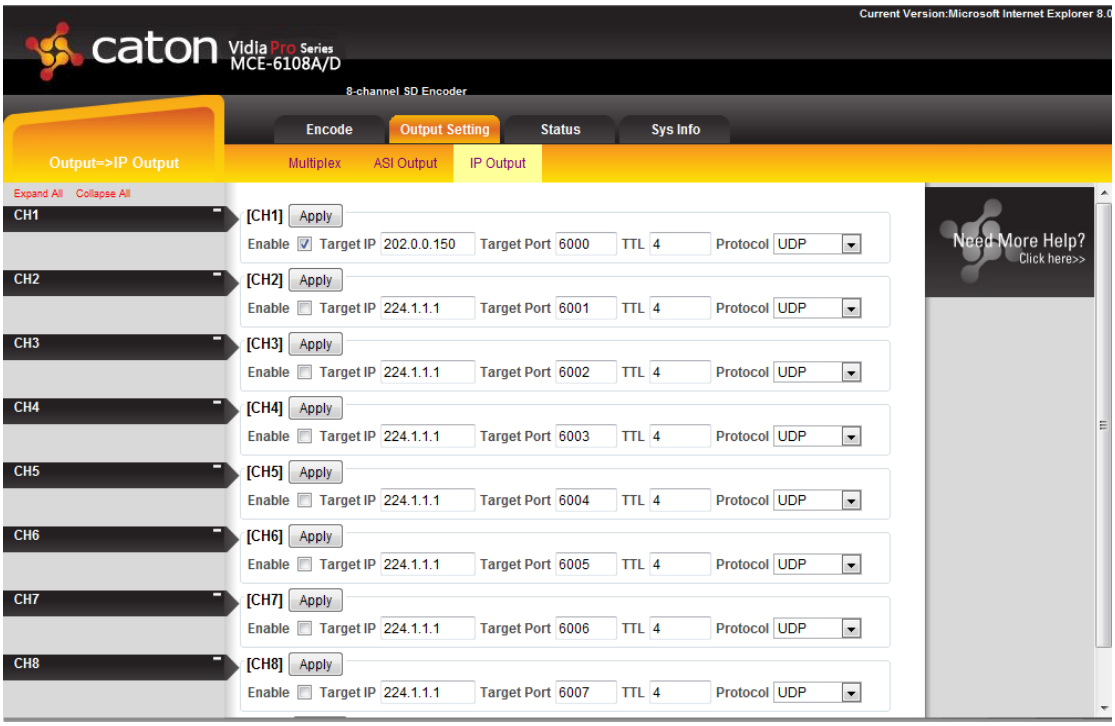
should be big than the value ofthe total TS bitrate which enable for output, as follows:

Tips: 1. Click 

, it will appear **ASI Out Parameter Config Succed** information, it indicates ASI output complete.

3. IP Output

Web page as follows:


caton
Vidia Pro Series
MCE-6108A/D
8-channel SD Encoder
Encode
Output Setting
Status
Sys Info
Output=>IP Output
Multiplex
ASI Output
IP Output
Expand All
Collapse All
Need More Help?
Click here>>
CH1 [CH1] Apply Enable Target IP 202.0.0.150 Target Port 6000 TTL 4 Protocol UDP
CH2 [CH2] Apply Enable Target IP 224.1.1.1 Target Port 6001 TTL 4 Protocol UDP
CH3 [CH3] Apply Enable Target IP 224.1.1.1 Target Port 6002 TTL 4 Protocol UDP
CH4 [CH4] Apply Enable Target IP 224.1.1.1 Target Port 6003 TTL 4 Protocol UDP
CH5 [CH5] Apply Enable Target IP 224.1.1.1 Target Port 6004 TTL 4 Protocol UDP
CH6 [CH6] Apply Enable Target IP 224.1.1.1 Target Port 6005 TTL 4 Protocol UDP
CH7 [CH7] Apply Enable Target IP 224.1.1.1 Target Port 6006 TTL 4 Protocol UDP
CH8 [CH8] Apply Enable Target IP 224.1.1.1 Target Port 6007 TTL 4 Protocol UDP

✦ **CH 1 (2 ,3,4,5,6,7,8) Setting**

-Enable ……Set effectiveness or ineffectiveness of IP Output

-Target IP ……Set Target IP

-TTL ……Set TTL

-Protocol ……Set Protocol (UDP/RTP)

-Target Port ……Set Target Port

✦ **Multilplex Setting**

-Enable ……Set effectiveness or ineffectiveness of IP Output

-Target IP ……Set Target IP

-TTL ……Set TTL

-Protocol ……Set Protocol (UDP/RTP)

-Target Port ……Set Target Port

Note：User can set target IP as unicast/multicast (default value is 224.1.1.1, multicast address range：224.0.0.1—239.255.255.254), After settings, and tick Enable which channel you want to choose, as follows: Enable .

For multilplex streaming output, you must config the asi output first**.**

Tips: 1.Click Apply button, it will appear Stream Parameter Config Succed. information, it indicates IP Output complete.

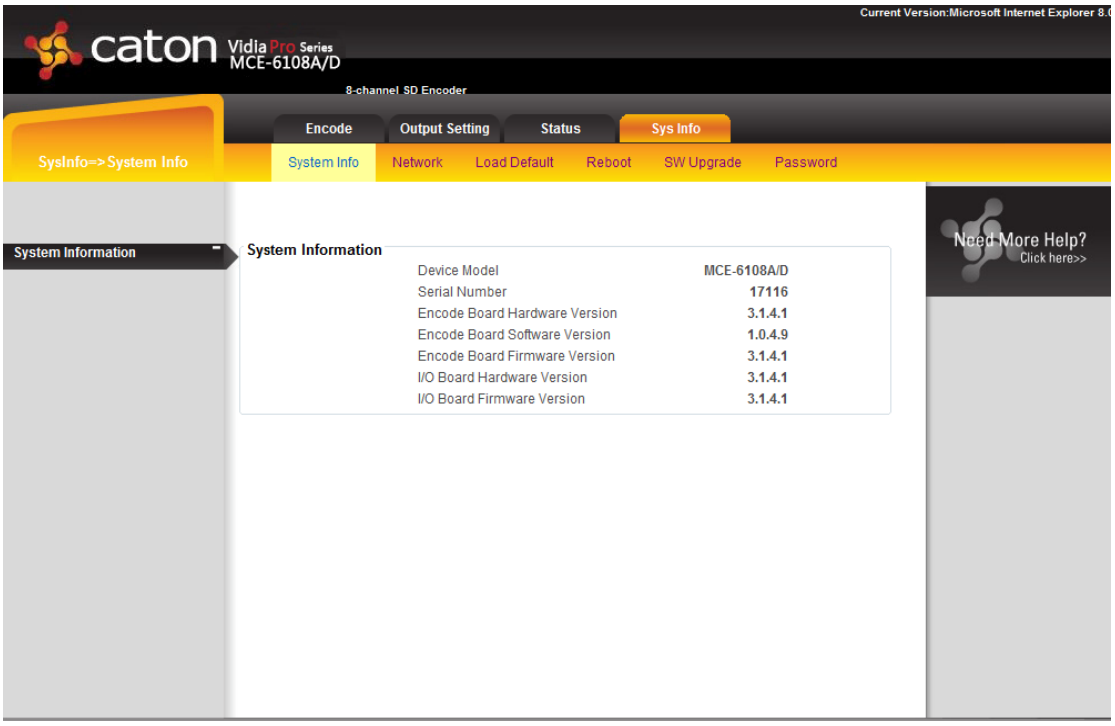
2. User can see the IP output bitrate through the web page “ASI Output”, please refer the page 32.

3.3.3 Sys Info Setting

1. System Info

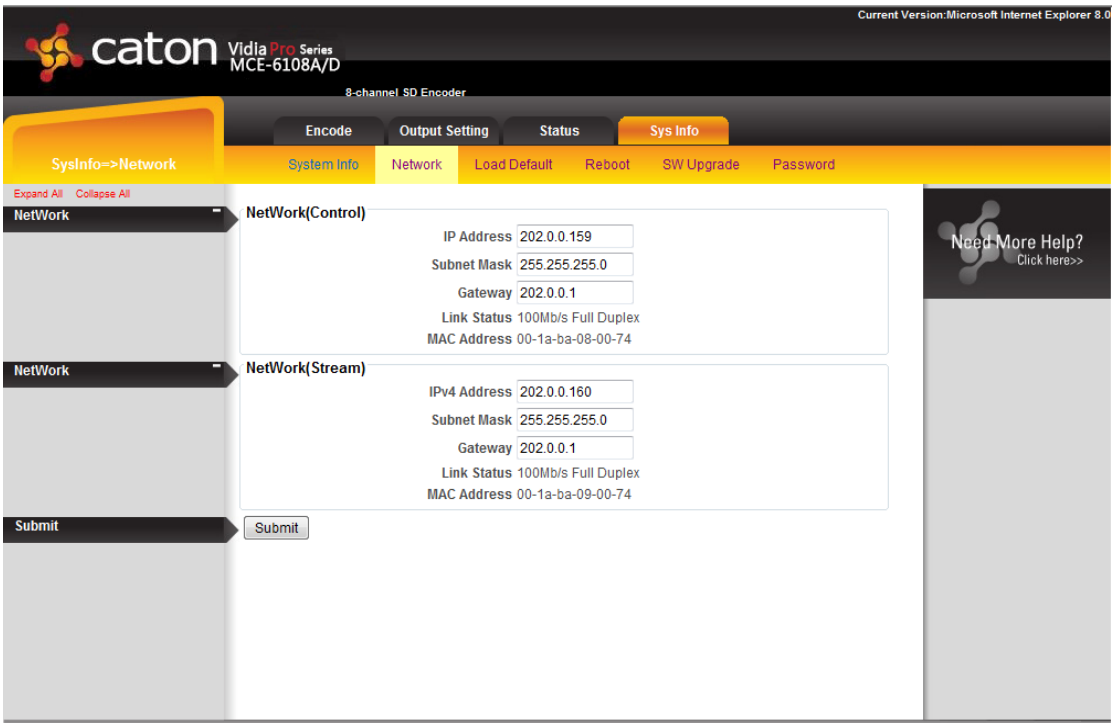
User can inquire device model, serial number, encode board hardware version, encode board software version, encode board firmware version, I/O board hardware version, I/O board firmware version.

Web page as follows:



2. Network

Web page as follows:



-IP address……Set IP address

-Subnet Mask ……Set Subnet Mask

-Gateway ……Set Gateway

-MAC Address ……User can browse MAC Address

-Link status ……Look over the device link status

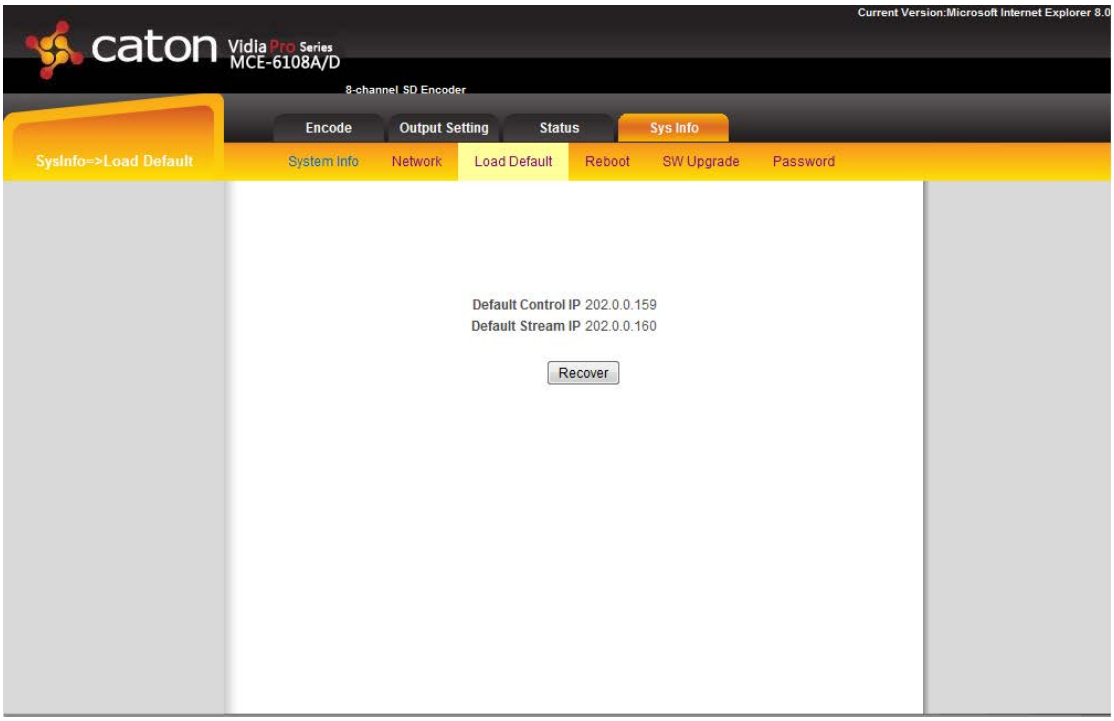
✦ With 1000M switch, normally link status display: 100 Mbps (Control port),1000 Mbps (Stream port), and otherwise display **Link Status** 1000Mb/s Full Duplex

✦ With 100M switch, normally link status display: 100 Mbps (Control port),100 Mbps (Stream port), and otherwise display **Link Status** 1000Mb/s Full Duplex

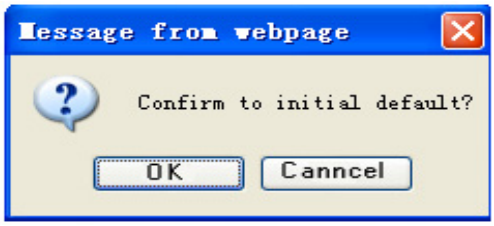
Tips :click Submit ,a dialog window will appear to remind of user whether modify or not, as follows:

3. Load Default

Web page as follows:



Tips：When you press Recover button, dialog window will appear to remind of user whether reset or not, as follows:



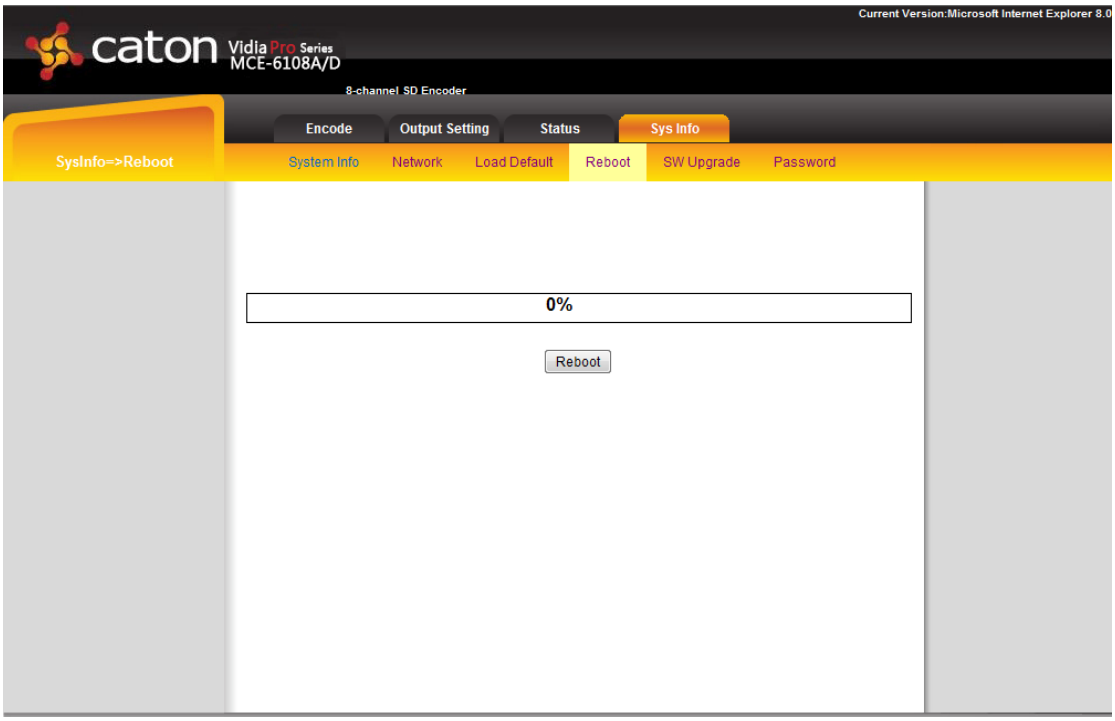
Load Default parameters:

Video Encode Mode	H.264
Format	PAL
Rate Control Mode	CBR
Target Bitrate(Kbps)	4000
Audio Encode Mode	MPEG1 Stereo
Sampling Rate(KHz)	48
Bitrate(Kbps)	192

4. Reboot

Web page as follows:

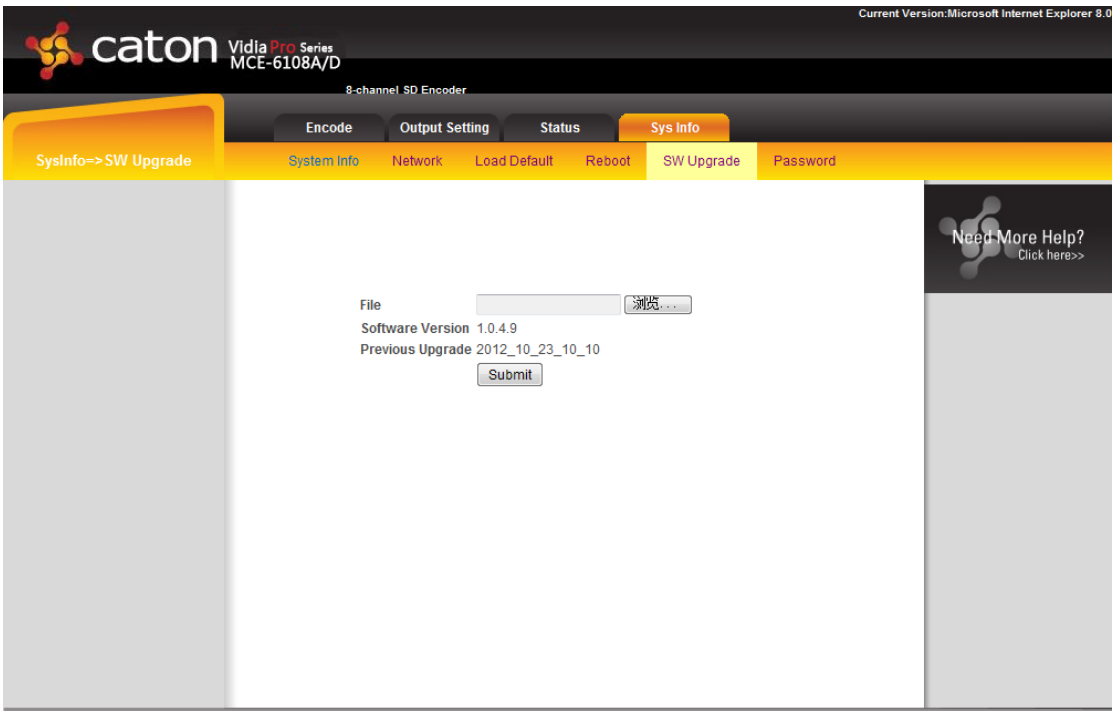
This menu function is to restart the equipment, click Reboot to required to be able to reboot the device.



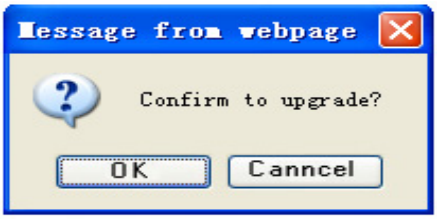
5. SW Upgrade

Web page as follows:

This menu function is to upgrade software version, click Browse... to find the upgrade file, select it and click Submit.



Tips：1.When you click Submit button, dialog window will appear to remind of you whether upgrade or not, as follows：

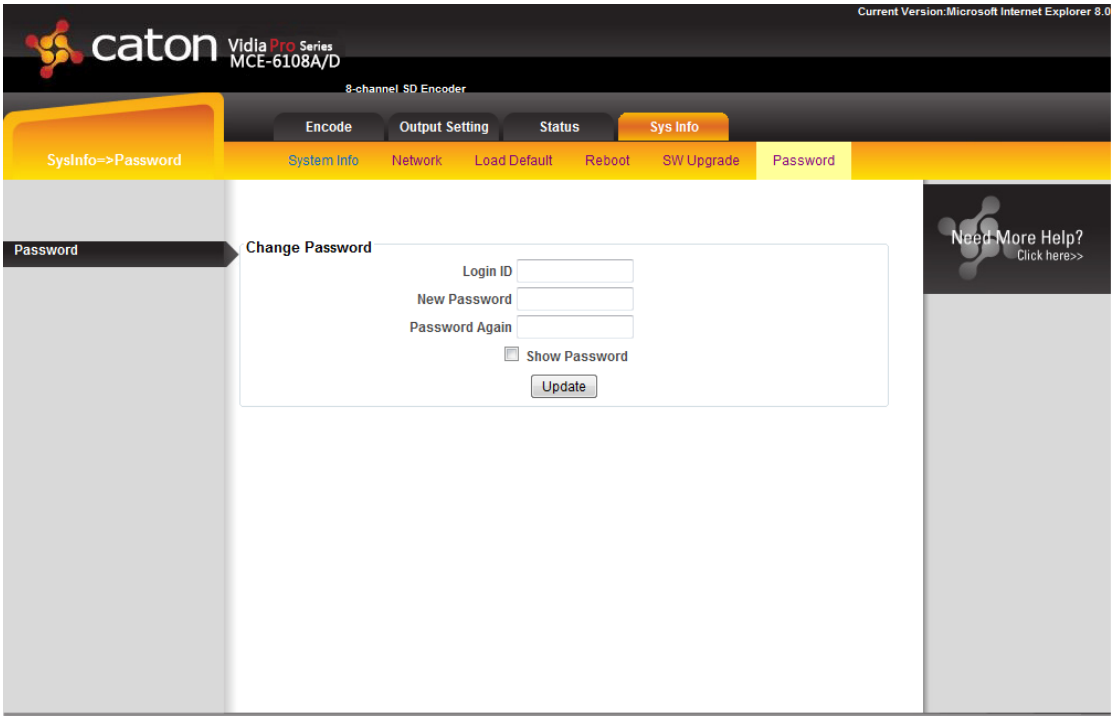


2.Upgrade is complete when Updata Firmware Success information appears.

Warming: Don't turn off the power when software updates.

6. Password

Web page as follows:



This menu function is to modify the device password

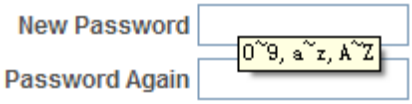
-Login ID……Enter user's name

-New Password……Enter new password

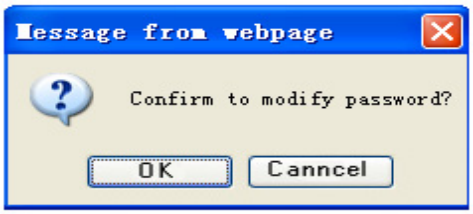
-Password Again ……Re-enter new password

- Show Password ……Show the contents of the password, enter the new password twice to confirm whether the same.

Tips：1. New Password and Password Again: 0~9, a~z ,A~Z



2. When you click Update button, a dialog window will appear to remind of you whether modify or not, as follows:



4. Technical Parameters

4.1 Video Encoding Index

Video Encode Index	
Chroma format	4:2:0
H.264	
Profile	Main

	High
Bitrate	250kbps~7Mbps
Format	576i(25):720×576(PAL)
	480i(29.97): 720×480(NTSC)
MPEG-2	
Profile	Main
	High
Bitrate	500kbps~7Mbps
Format	576i(25):720×576(PAL)
	480i(29.97): 720×480(NTSC)

4.2 Audio Encoding Index

Audio Encode Index	
Input Signal Type	SDI embedded audio ,AES/EBU and Analog Audio
Audio Format	MPEG1 Mono
	MPEG1 Stereo
	AAC-LC Mono
	AAC-LC dual Mono
	AAC-LC Stereo
	AAC-HE v1 Mono
	AAC-HE v1 dual Mono

Audio Format	AAC-HE v1 Mono
	AAC-HE v2 Stereo
	MPEG-1 Pass
	AAC-LC Pass
	HE-AAC Pass
	AC3-CE Pass
	AC3-PE Pass
Sampling Rate	32kHz
	44.1kHz
	48kHz

4.3 Input and Output Interface

Video Input	
Interface Type and Number	8×SDI / 8×CVBS
Format	PAL BNC Interface 75 Ohm
	NTSC BNC Interface 75 Ohm
Audio Input	
Audio	8×AES/EBU/8×Analog Stereo Audio
	8×SDI embedded audio
TS Input	
Interface	ASI×1; BNC impedance75Ohm

TS Output	
Interface	ASI×2; BNC impedance75Ohm
Max Output Rate	212Mbps
MPEG-TS StreamIP Output	UDP/RTP unicast /multicast
TS OVER IP Max Output Rate	400Mbps

4.4 Physical Characteristics

Power Indicator	
Power Number	×2
Voltage	AC85~265V
Frequency	50/60Hz
Typical Power Consumption	≤40W
Operating Environment	
Working Temperature	0~55°C
Storing Temperature	-10~70°C

Humidity	< 90%(non-condensing)
Physical Index	
Dimension	19”×1.75”×24”(1RU)
	48.26cm×4.45cm×60.69cm
Weight	24Ibs
	5Kg